
UNIVERSITI SAINS MALAYSIA

Second Semester Examination
2002/2003 Academic Session

SEPTEMBER / OCTOBER 2003

EAV 584/4 – ENVIRONMENTAL IMPACT ASSESSMENT

Time : 3 hour

Instruction to candidates:

1. Ensure that this paper contains **SEVEN (7)** printed pages include appendices.
2. This paper contains **SEVEN (7)** question. Answer **FIVE (5)** question only. Marks will be given to the **FIRST FIVE (5)** question put in order on the answer script and **NOT** the **BEST FIVE (5)**.
3. All questions carry the same mark.
4. All questions **MUST BE** answered in Bahasa Malaysia.
5. Write answered question number on the cover sheet of answer script.

1. (a) Describe briefly the following terms with respect to the National Environmental Policy Act (1969) in the United States:

- i. Environmental inventory
- ii. Environmental impact statement
- iii. Physical-chemical environment
- iv. Screening

(8 marks)

(b) One of the factor which was considered for the environmental impact assessment study in the British Gas Industry in the United Kingdom is social consideration. Discuss briefly the effects of any major project in a particular area to the nearby inhabitants.

(6 marks)

(c) Identify and compare three environmental objectives under the Sixth Malaysia Plan and three those of the National Environmental Act Policy of the United States of America. Give your comments based on the comparisons if necessary.

(6 marks)

2. (a) Describe briefly the objectives of Preliminary Assessment for prescribed activities as required by the Department of Environment, Malaysia.

(4 marks)

(b) Environmental costs and benefits analysis is important to facilitate in the decision making process. Briefly explain the factors to be considered for the costs and benefits analysis at the preliminary assessment stage as required by the Department of Environment Malaysia. Construct a graph showing marginal social cost of pollution, marginal social cost of pollution abatement and actual revenue curves from any particular project.

(8 marks)

(c) Scoping is a process applied at the early stages of project assessment. Describe briefly the objectives of this process.

(8 marks)

3. (a) Damning the river and creating a lake-like environment has profound effects on the hydrology and limnology of the river system. Discuss the issues involve with respect to regulated flow due to dam project.

(10 marks)